

10/511756
DT01 Rec'd PCT/PTO 19 OCT 2004

SEQUENCE LISTING

<110> B.R.A.H.M.S Aktiengesellschaft

<120> Verwendungen der Carbamoylphosphat Synthetase 1 (CPS 1)
und ihrer Fragmente für die Diagnose von
Entzündungserkrankungen und Sepsis

<130> 3695PCT AS

<140>

<141>

<150> 02008841.5 EP

<151> 2002-04-19

<160> 8

<170> PatentIn Ver. 2.1

<210> 1

<211> 11

<212> PRT

<213> Primat (Pavian)

<400> 1

Gly Gln Asn Gln Pro Val Leu Asn Ile Thr Asn
1 5 10

<210> 2

<211> 7

<212> PRT

<213> Primat (Pavian)

<400> 2

Asn Gln Pro Val Leu Asn Ile
1 5

<210> 3

<211> 13

<212> PRT

<213> Primat (Pavian)

<400> 3

Ala Gln Thr Ala His Ile Val Leu Glu Asp Gly Thr Lys
1 5 10

<210> 4

<211> 4

<212> PRT

<213> Primat (Pavian)

<400> 4

Thr Ala His Ile
1

```
<210> 5
<211> 12
<212> PRT
<213> Primat (Pavian)
```

```
<400> 5
Ala Phe Ala Met Thr Asn Gln Ile Leu Val Glu Lys
  1             5             10
```

```
<210> 6
<211> 1500
<212> PRT
<213> Homo sapiens
```

<400> 6															
Met	Thr	Arg	Ile	Leu	Thr	Ala	Phe	Lys	Val	Val	Arg	Thr	Leu	Lys	Thr
1				5					10					15	
Gly	Phe	Gly	Phe	Thr	Asn	Val	Thr	Ala	His	Gln	Lys	Trp	Lys	Phe	Ser
			20					25					30		
Arg	Pro	Gly	Ile	Arg	Leu	Leu	Ser	Val	Lys	Ala	Gln	Thr	Ala	His	Ile
		35					40					45			
Val	Leu	Glu	Asp	Gly	Thr	Lys	Met	Lys	Gly	Tyr	Ser	Phe	Gly	His	Pro
	50					55					60				
Ser	Ser	Val	Ala	Gly	Glu	Val	Val	Phe	Asn	Thr	Gly	Leu	Gly	Gly	Tyr
	65				70					75					80
Pro	Glu	Ala	Ile	Thr	Asp	Pro	Ala	Tyr	Lys	Gly	Gln	Ile	Leu	Thr	Met
				85					90					95	
Ala	Asn	Pro	Ile	Ile	Gly	Asn	Gly	Gly	Ala	Pro	Asp	Thr	Thr	Ala	Leu
			100					105					110		
Asp	Glu	Leu	Gly	Leu	Ser	Lys	Tyr	Leu	Glu	Ser	Asn	Gly	Ile	Lys	Val
		115					120					125			
Ser	Gly	Leu	Leu	Val	Leu	Asp	Tyr	Ser	Lys	Asp	Tyr	Asn	His	Trp	Leu
	130					135					140				
Ala	Thr	Lys	Ser	Leu	Gly	Gln	Trp	Leu	Gln	Glu	Glu	Lys	Val	Pro	Ala
	145				150					155					160
Ile	Tyr	Gly	Val	Asp	Thr	Arg	Met	Leu	Thr	Lys	Ile	Ile	Arg	Asp	Lys
				165					170					175	
Gly	Thr	Met	Leu	Gly	Lys	Ile	Glu	Phe	Glu	Gly	Gln	Pro	Val	Asp	Phe
			180					185					190		
Val	Asp	Pro	Asn	Lys	Gln	Asn	Leu	Ile	Ala	Glu	Val	Ser	Thr	Lys	Asp
		195					200					205			
Val	Lys	Val	Tyr	Gly	Lys	Gly	Asn	Pro	Thr	Lys	Val	Val	Ala	Val	Asp
	210					215					220				
Cys	Gly	Ile	Lys	Asn	Asn	Val	Ile	Arg	Leu	Leu	Val	Lys	Arg	Gly	Ala
	225				230					235					240
Glu	Val	His	Leu	Val	Pro	Trp	Asn	His	Asp	Phe	Thr	Lys	Met	Glu	Tyr
				245					250					255	
Asp	Gly	Ile	Leu	Ile	Ala	Gly	Gly	Pro	Gly	Asn	Pro	Ala	Leu	Ala	Glu
			260					265					270		

Pro Leu Ile Gln Asn Val Arg Lys Ile Leu Glu Ser Asp Arg Lys Glu
 275 280 285
 Pro Leu Phe Gly Ile Ser Thr Gly Asn Leu Ile Thr Gly Leu Ala Ala
 290 295 300
 Gly Ala Lys Thr Tyr Lys Met Ser Met Ala Asn Arg Gly Gln Asn Gln
 305 310 315 320
 Pro Val Leu Asn Ile Thr Asn Lys Gln Ala Phe Ile Thr Ala Gln Asn
 325 330 335
 His Gly Tyr Ala Leu Asp Asn Thr Leu Pro Ala Gly Trp Lys Pro Leu
 340 345 350
 Phe Val Asn Val Asn Asp Gln Thr Asn Glu Gly Ile Met His Glu Ser
 355 360 365
 Lys Pro Phe Phe Ala Val Gln Phe His Pro Glu Val Thr Pro Gly Pro
 370 375 380
 Ile Asp Thr Glu Tyr Leu Phe Asp Ser Phe Phe Ser Leu Ile Lys Lys
 385 390 395 400
 Gly Lys Ala Thr Thr Ile Thr Ser Val Leu Pro Lys Pro Ala Leu Val
 405 410 415
 Ala Ser Arg Val Glu Val Ser Lys Val Leu Ile Leu Gly Ser Gly Gly
 420 425 430
 Leu Ser Ile Gly Gln Ala Gly Glu Phe Asp Tyr Ser Gly Ser Gln Ala
 435 440 445
 Val Lys Ala Met Lys Glu Glu Asn Val Lys Thr Val Leu Met Asn Pro
 450 455 460
 Asn Ile Ala Ser Val Gln Thr Asn Glu Val Gly Leu Lys Gln Ala Asp
 465 470 475 480
 Thr Val Tyr Phe Leu Pro Ile Thr Pro Gln Phe Val Thr Glu Val Ile
 485 490 495
 Lys Ala Glu Gln Pro Asp Gly Leu Ile Leu Gly Met Gly Gly Gln Thr
 500 505 510
 Ala Leu Asn Cys Gly Val Glu Leu Phe Lys Arg Gly Val Leu Lys Glu
 515 520 525
 Tyr Gly Val Lys Val Leu Gly Thr Ser Val Glu Ser Ile Met Ala Thr
 530 535 540
 Glu Asp Arg Gln Leu Phe Ser Asp Lys Leu Asn Glu Ile Asn Glu Lys
 545 550 555 560
 Ile Ala Pro Ser Phe Ala Val Glu Ser Ile Glu Asp Ala Leu Lys Ala
 565 570 575
 Ala Asp Thr Ile Gly Tyr Pro Val Met Ile Arg Ser Ala Tyr Ala Leu
 580 585 590
 Gly Gly Leu Gly Ser Gly Ile Cys Pro Asn Arg Glu Thr Leu Met Asp
 595 600 605
 Leu Ser Thr Lys Ala Phe Ala Met Thr Asn Gln Ile Leu Val Glu Lys
 610 615 620

Ser Val Thr Gly Trp Lys Glu Ile Glu Tyr Glu Val Val Arg Asp Ala
 625 630 635 640
 Asp Asp Asn Cys Val Thr Val Cys Asn Met Glu Asn Val Asp Ala Met
 645 650 655
 Gly Val His Thr Gly Asp Ser Val Val Val Ala Pro Ala Gln Thr Leu
 660 665 670
 Ser Asn Ala Glu Phe Gln Met Leu Arg Arg Thr Ser Ile Asn Val Val
 675 680 685
 Arg His Leu Gly Ile Val Gly Glu Cys Asn Ile Gln Phe Ala Leu His
 690 695 700
 Pro Thr Ser Met Glu Tyr Cys Ile Ile Glu Val Asn Ala Arg Leu Ser
 705 710 715 720
 Arg Ser Ser Ala Leu Ala Ser Lys Ala Thr Gly Tyr Pro Leu Ala Phe
 725 730 735
 Ile Ala Ala Lys Ile Ala Leu Gly Ile Pro Leu Pro Glu Ile Lys Asn
 740 745 750
 Val Val Ser Gly Lys Thr Ser Ala Cys Phe Glu Pro Ser Leu Asp Tyr
 755 760 765
 Met Val Thr Lys Ile Pro Arg Trp Asp Leu Asp Arg Phe His Gly Thr
 770 775 780
 Ser Ser Arg Ile Gly Ser Ser Met Lys Ser Val Gly Glu Val Met Ala
 785 790 795 800
 Ile Gly Arg Thr Phe Glu Glu Ser Phe Gln Lys Ala Leu Arg Met Cys
 805 810 815
 His Pro Ser Ile Glu Gly Phe Thr Pro Arg Leu Pro Met Asn Lys Glu
 820 825 830
 Trp Pro Ser Asn Leu Asp Leu Arg Lys Glu Leu Ser Glu Pro Ser Ser
 835 840 845
 Thr Arg Ile Tyr Ala Ile Ala Lys Ala Ile Asp Asp Asn Met Ser Leu
 850 855 860
 Asp Glu Ile Glu Lys Leu Thr Tyr Ile Asp Lys Trp Phe Leu Tyr Lys
 865 870 875 880
 Met Arg Asp Ile Leu Asn Met Glu Lys Thr Leu Lys Gly Leu Asn Ser
 885 890 895
 Glu Ser Met Thr Glu Glu Thr Leu Lys Arg Ala Lys Glu Ile Gly Phe
 900 905 910
 Ser Asp Lys Gln Ile Ser Lys Cys Leu Gly Leu Thr Glu Ala Gln Thr
 915 920 925
 Arg Glu Leu Arg Leu Lys Lys Asn Ile His Pro Trp Val Lys Gln Ile
 930 935 940
 Asp Thr Leu Ala Ala Glu Tyr Pro Ser Val Thr Asn Tyr Leu Tyr Val
 945 950 955 960
 Thr Tyr Asn Gly Gln Glu His Asp Val Asn Phe Asp Asp His Gly Met
 965 970 975

Met Val Leu Gly Cys Gly Pro Tyr His Ile Gly Ser Ser Val Glu Phe
 980 985 990
 Asp Trp Cys Ala Val Ser Ser Ile Arg Thr Leu Arg Gln Leu Gly Lys
 995 1000 1005
 Lys Thr Val Val Val Asn Cys Asn Pro Glu Thr Val Ser Thr Asp Phe
 1010 1015 1020
 Asp Glu Cys Asp Lys Leu Tyr Phe Glu Glu Leu Ser Leu Glu Arg Ile
 1025 1030 1035 1040
 Leu Asp Ile Tyr His Gln Glu Ala Cys Gly Gly Cys Ile Ile Ser Val
 1045 1050 1055
 Gly Gly Gln Ile Pro Asn Asn Leu Ala Val Pro Leu Tyr Lys Asn Gly
 1060 1065 1070
 Val Lys Ile Met Gly Thr Ser Pro Leu Gln Ile Asp Arg Ala Glu Asp
 1075 1080 1085
 Arg Ser Ile Phe Ser Ala Val Leu Asp Glu Leu Lys Val Ala Gln Ala
 1090 1095 1100
 Pro Trp Lys Ala Val Asn Thr Leu Asn Glu Ala Leu Glu Phe Ala Lys
 1105 1110 1115 1120
 Ser Val Asp Tyr Pro Cys Leu Leu Arg Pro Ser Tyr Val Leu Ser Gly
 1125 1130 1135
 Ser Ala Met Asn Val Val Phe Ser Glu Asp Glu Met Lys Lys Phe Leu
 1140 1145 1150
 Glu Glu Ala Thr Arg Val Ser Gln Glu His Pro Val Val Leu Thr Lys
 1155 1160 1165
 Phe Val Glu Gly Ala Arg Glu Val Glu Met Asp Ala Val Gly Lys Asp
 1170 1175 1180
 Gly Arg Val Ile Ser His Ala Ile Ser Glu His Val Glu Asp Ala Gly
 1185 1190 1195 1200
 Val His Ser Gly Asp Ala Thr Leu Met Leu Pro Thr Gln Thr Ile Ser
 1205 1210 1215
 Gln Gly Ala Ile Glu Lys Val Lys Asp Ala Thr Arg Lys Ile Ala Lys
 1220 1225 1230
 Ala Phe Ala Ile Ser Gly Pro Phe Asn Val Gln Phe Leu Val Lys Gly
 1235 1240 1245
 Asn Asp Val Leu Val Ile Glu Cys Asn Leu Arg Ala Ser Arg Ser Phe
 1250 1255 1260
 Pro Phe Val Ser Lys Thr Leu Gly Val Asp Phe Ile Asp Val Ala Thr
 1265 1270 1275 1280
 Lys Val Met Ile Gly Glu Asn Val Asp Glu Lys His Leu Pro Thr Leu
 1285 1290 1295
 Asp His Pro Ile Ile Pro Ala Asp Tyr Val Ala Ile Lys Ala Pro Met
 1300 1305 1310
 Phe Ser Trp Pro Arg Leu Arg Asp Ala Asp Pro Ile Leu Arg Cys Glu
 1315 1320 1325

Met Ala Ser Thr Gly Glu Val Ala Cys Phe Gly Glu Gly Ile His Thr
 1330 1335 1340

Ala Phe Leu Lys Ala Met Leu Ser Thr Gly Phe Lys Ile Pro Gln Lys
 1345 1350 1355 1360

Gly Ile Leu Ile Gly Ile Gln Gln Ser Phe Arg Pro Arg Phe Leu Gly
 1365 1370 1375

Val Ala Glu Gln Leu His Asn Glu Gly Phe Lys Leu Phe Ala Thr Glu
 1380 1385 1390

Ala Thr Ser Asp Trp Leu Asn Ala Asn Asn Val Pro Ala Thr Pro Val
 1395 1400 1405

Ala Trp Pro Ser Gln Glu Gly Gln Asn Pro Ser Leu Ser Ser Ile Arg
 1410 1415 1420

Lys Leu Ile Arg Asp Gly Ser Ile Asp Leu Val Ile Asn Leu Pro Asn
 1425 1430 1435 1440

Asn Asn Thr Lys Phe Val His Asp Asn Tyr Val Ile Arg Arg Thr Ala
 1445 1450 1455

Val Asp Ser Gly Ile Pro Leu Leu Thr Asn Phe Gln Val Thr Lys Leu
 1460 1465 1470

Phe Ala Glu Ala Val Gln Lys Ser Arg Lys Val Asp Ser Lys Ser Leu
 1475 1480 1485

Phe His Tyr Arg Gln Tyr Ser Ala Gly Lys Ala Ala
 1490 1495 1500

<210> 7
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 7
 Cys Glu Phe Glu Gly Gln Pro Val Asp Phe Val Asp Pro Asn Lys Gln
 1 5 10 15

Asn

<210> 8
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Peptide

<400> 8
 Cys Val Pro Trp Asn His Asp Phe Thr Lys Met Glu Tyr Asp
 1 5 10